## In the claims:

For the Examiner's convenience, all pending claims are presented below with changes shown.

(Previously Presented) A method comprising:
 receiving input data at an execution unit within a processor;

the execution unit performing one or more current multiply-accumulate operations on the received input data with one or more modular multiply-accumulate units that are dynamically reconfigurable based on bandwidth requirements of the one or more multiply accumulate operations; and

saving the received input data at one or more buffers within the execution unit for one or more multiply-accumulate operations to be performed during a subsequent computational cycle after the current multiply-accumulate operations.

2. (Original) The method of claim 1, wherein the receiving comprises receiving first and second data by the execution unit; and

wherein the performing comprises performing by the execution unit a multiplyaccumulate operation on the received first and second data and a multiply-accumulate operation on the received first data and on input data saved by the execution unit.

3. (Original) The method of claim 1, wherein the receiving comprises receiving first, second, third, and fourth data by the execution unit, and

wherein the performing comprises performing by the execution unit a multiply-accumulate operation on the received first and third data, a multiply-accumulate operation on the received second and fourth data, a multiply-accumulate operation on the Docket No. 42P11127
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received first and fourth data, and a multiply-accumulate operation on the received second data and on input data saved by the execution unit.

- 4. (Original) The method of claim 3, wherein the performing the multiply-accumulate operation on the received first and third data and the multiply-accumulate operation on the received second and fourth data comprise multiplying the received first and third data to produce a first product, multiplying the received second and fourth data to produce a second product, and adding the first product, the second product, and an accumulated sum.
- 5. (Previously Presented) The method of claim 1, comprising:

  repeating the receiving, performing, and saving by the execution unit one or more times to accumulate data; and outputting the accumulated data by the execution unit.
- 6. (Canceled)
- 7. (Previously Presented) The method of claim 1, wherein one or more tap coefficients are each a complex number and one or more input data samples are each a complex number.
- 8. (Original) The method of claim 1, comprising saving by the execution unit saved input data for one or more multiply-accumulate operations to be performed by the execution unit.
- 9. (Original) The method of claim 1, comprising performing the receiving and performing in accordance with a single instruction multiple data instruction.

10. (Previously Presented) An apparatus comprising:

an execution unit block having a plurality of inputs, the execution unit block comprising:

one or more buffers to save input data received at one or more of the inputs, the data to be utilized by the execution unit in a subsequent multiply-accumulate operations after current multiply-accumulate operations; and

a plurality of multiplier-accumulators to perform one or more current multiply-accumulate operations on the stored input data with one or more modular multiply-accumulate units that are dynamically reconfigurable based, at least in part, on bandwidth requirements of the one or more current multiply-accumulate operations; and

a control logic block to control the multiplier-accumulators and one or more buffers.

- 11. (Original) The apparatus of claim 10, the multiplier-accumulators to perform a multiply-accumulate operation on first and second input data received at the inputs and a multiply-accumulate operation on the received first input data and on input data stored in a buffer of the execution unit block.
- 12. (Original) The apparatus of claim 11, wherein the execution unit block comprises a single multiplier-accumulator comprising a multiplier to multiply the received first and second input data to produce a product, an accumulator to store an accumulated sum, and an adder to add the product to the accumulated sum.
- 13. (Original) The apparatus of claim 10, the multiplier-accumulators to perform

a multiply-accumulate operation on first and third input data received at the inputs, a multiply-accumulate operation on second and fourth data received at the inputs, a multiply-accumulate operation on the received first and fourth data, and a multiply-accumulate operation on the received second data and on input data stored in a buffer of the execution unit block.

- 14. (Original) The apparatus of claim 13, wherein the execution unit block comprises a dual multiplier-accumulator comprising a multiplier to multiply the received first and third input data to produce a first product, a multiplier to multiply the received second and fourth input data to produce a second product, an accumulator to store an accumulated sum, and an adder to add the first product, the second product, and the accumulated sum.
- 15. (Original) The apparatus of claim 10, the execution unit block comprising one or more execution unit building blocks each comprising one or more multiplier-accumulators and one or more buffers.
- 16. (Original) The apparatus of claim 10, the control logic to control the execution unit block to repeat, one or more times, receiving input data at one or more of the inputs, performing multiply-accumulate operations on the received input data and on input data stored in one or more buffers of the execution unit block to accumulate data, and saving the received input data in one or more buffers of the execution unit block.
- 17. (Canceled)
- 18. (Previously Presented) The apparatus of claim 10, wherein the one or more

tap coefficients are each a complex number and the one or more input data samples are each a complex number.

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- 19. (Original) The apparatus of claim 10, the control logic to control the execution unit block to save input data stored in one or more buffers of the execution unit block for one or more multiply-accumulate operations to be performed by the execution unit block.
- 20. (Original) The apparatus of claim 10, the control logic to control the multiplier-accumulators and the one or more buffers in accordance with a single instruction multiple data instruction.
- 21. (Previously Presented) A system comprising: a coder/decoder to receive analog signals and convert the analog signals into corresponding input data; and

a processor to process the corresponding input data, the processor including: an execution unit block having a plurality of inputs, the execution unit block comprising:

one or more buffers to save input data received at one or more of the inputs, the data to be utilized by the execution unit in a subsequent multiply-accumulate operations after current multiply-accumulate operations; and

a plurality of multiplier-accumulators to perform one or more current multiply-accumulate operations on the stored input data with one or more modular multiply-accumulate units that are dynamically reconfigurable

based, at least in part, on bandwidth requirements of the one or more current multiply-accumulate operations; and

a control logic block to control the multiplier-accumulators and one or more buffers.

- 22. (Original) The system of claim 21, the multiplier-accumulators to perform a multiply-accumulate operation on first and second input data received at the inputs and a multiply-accumulate operation on the received first input data and on input data stored in a buffer of the execution unit block.
- 23. (Original) The system of claim 22, wherein the execution unit block comprises a single multiplier-accumulator comprising a multiplier to multiply the received first and second input data to produce a product, an accumulator to store an accumulated sum, and an adder to add the product to the accumulated sum.
- 24. (Original) The system of claim 21, the multiplier-accumulators to perform a multiply-accumulate operation on first and third input data received at the inputs, a multiply-accumulate operation on second and fourth data received at the inputs, a multiply-accumulate operation on the received first and fourth data, and a multiply-accumulate operation on the received second data and on input data stored in a buffer of the execution unit block.
- 25. (Original) The system of claim 24, wherein the execution unit block comprises a dual multiplier-accumulator comprising a multiplier to multiply the received first and third input data to produce a first product, a multiplier to multiply the received second and fourth input data to produce a second product, an accumulator to store an Docket No. 42P11127

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accumulated sum, and an adder to add the first product, the second product, and the accumulated sum

- 26. (Original) The system of claim 21, the execution unit block comprising one or more execution unit building blocks each comprising one or more multiplier-accumulators and one or more buffers.
- 27. (Original) The system of claim 21, the control logic to control the execution unit block to repeat, one or more times, receiving input data at one or more of the inputs, performing multiply- accumulate operations on the received input data and on input data stored in one or more buffers of the execution unit block to accumulate data, and saving the received input data in one or more buffers of the execution unit block.
- 28. (Canceled)
- 29. (Original) The system of claim 21, the control logic to control the execution unit block to save input data stored in one or more buffers of the execution unit block for one or more multiply-accumulate operations to be performed by the execution unit block.
- 30. (Original) The system of claim 21, the control logic to control the multiplier-accumulators and the one or more buffers in accordance with a single instruction multiple data instruction.
- 31. (Previously Presented) The method of claim 1, wherein the performing is to implement a finite impulse response filter with the received input data comprising one or more tap coefficients and one or more input data samples and with accumulated data in the accumulator comprising one or more output data samples.

- 32. (Previously Presented) The apparatus of claim 10, wherein the multiplier-accumulators to perform the multiple accumulate operations to implement a finite impulse response filter with the received input data comprising one or more tap coefficients and one or more input data samples and with accumulated data in the accumulator comprising one or more output data samples.
- 33. (Previously Presented) The system of claim 21, wherein the multiplier-accumulators to perform the multiple accumulate operations to implement a finite impulse response filter with the received input data comprising one or more tap coefficients and one or more input data samples and with accumulated data in the accumulator comprising one or more output data samples.